Author Index (Vol. 45)

Adrian, D.L., see Gordon, D.L., (45) 191
Akintunde, A. and Buxton, D.F.
Quadruple labeling of brain-stem neurons: a multiple retrograde fluorescent tracer study of axonal collateralization, (45) 15
Andreasen, A., Drewes, A.M., Assentoft, J.E. and Larsen, N.E.
Computer-assisted alignment of standard serial sections without use of artificial landmarks. A practical approach to the utilization of incomplete information in 3-D reconstruction of the hippocampal region, (45) 199
Antonelli, T., see Bianchi, C., (45) 175
Apkarian, A.V., see Brandt, H.M., (45) 35
Assentoft, J.E., see Andreasen, A., (45) 199
Avery, V.M., see Gordon, D.L., (45) 191
Awiszus, F.
The RIPP density estimate: an alternative method for the estimation of peri-stimulus spike density, (45) 55

Balercia, G., Chen, S. and Bentivoglio, M.
Electron microscopic analysis of fluorescent neuronal labeling after photoconversion, (45) 87
Beani, L., see Bianchi, C., (45) 175
Bentivoglio, M., see Balercia, G., (45) 87
Bianchi, C., Beani, L., Antonelli, T., Vedovato, M., Calo, G. and Tomasini, C.
A simple method for electrical field stimulation of cultured granule cells, (45) 175
Brandt, H.M. and Apkarian, A.V.
Biotin–dextran: a sensitive anterograde tracer for neuroanatomic studies in rat and monkey, (45) 35
Brekelmans-Bartels, M., see Gerrits, P.O., (45) 99
Bruce, K. and Grofova, I.
Notes on a light and electron microscopic double-labeling method combining anterograde tracing with *Phaseolus vulgaris* leucoagglutinin and retrograde tracing with cholera toxin subunit B, (45) 23
Brun, P., see Suaud-Chagny, M.F., (45) 183
Buda, M., see Suaud-Chagny, M.F., (45) 183
Buxton, D.F., see Akintunde, A., (45) 15

Calo, G., see Bianchi, C., (45) 175
Caputi, A.A., see Weytjens, J.L.F., (45) 217
Chen, C. and Schofield, G.G.
Ca^{2+} currents of fast blue-labeled superior cervical ganglion neurons, (45) 63
Chen, S., see Balercia, G., (45) 87
Cowen, T. and Thrasivoulou, C.
A microscopical assay using a densitometric application of image analysis to quantify neurotransmitter dynamics, (45) 107

De Limoges, D., see Lüscher, C., (45) 155
De Vrind, H.H., Wondergem, J. and Haveman, J.
Hyperthermia-induced damage to rat sciatic nerve assessed in vivo with functional methods and with electrophysiology, (45) 165
Drewes, A.M., see Andreasen, A., (45) 199

Edwards, B.W. and Wakefield, G.H.
An efficient method for detecting connectivity in neural ensembles, (45) 1
Elberger, A.J., Hester, M.M. and Stiles, H.
HRP reacted with the chromogen *o*-tolidine produces whole-cell reaction product at light and electron microscope levels: negative effects of sucrose and Golgi staining on benzidine reactions, (45) 227
Elverfors, A., Jonason, J., Jonason, G., Leonsson, G. and Nissbrandt, H.
Determination of release of endogenous dopamine from superfused substantia nigra slices, (45) 209

Frei, P., see Lüscher, C., (45) 155
Fumero, B., see Guadalupe, T., (45) 159

Gerrits, P.O., Brekelmans-Bartels, M., Mast, L., 's-Gravenmade, E.J., Horobin, R.W. and Holstege, G.
Staining myelin and myelin-like degradation products in the spinal cords of chronic experimental allergic encephalomyelitis (Cr-EAE) rats using Sudan Black B staining of glycol methacrylate-embedded material, (45) 99
Gonon, F., see Suaud-Chagny, M.F., (45) 183
Gonzalez-Mora, J.L., see Guadalupe, T., (45) 159
Gordon, D.L., Avery, V.M., Adrian, D.L. and Sadlon, T.A.
Detection of complement protein mRNA in human astrocytes by the polymerase chain reaction, (45) 191
Grofova, I., see Bruce, K., (45) 23
Guadalupe, T., Gonzalez-Mora, J.L., Fumero, B. and Mas, M.
Voltammetric monitoring of brain extracellular levels of serotonin, 5-hydroxyindoleacetic acid and uric acid as assessed by simultaneous microdialysis, (45) 159

Hatton, J.D. and Lin, L.
Demonstration of specific neuronal cell groups in rat brain by β-galactosidase enzyme histochemistry, (45) 147
Haveman, J., see De Vrind, H.H., (45) 165
Hedwig, B. and Knepper, M.
NEUROLAB, a comprehensive program for the analysis of neurophysiological and behavioural data, (45) 135
Hermsdörfer, J., Mai, N. and Marquardt, C.
Evaluation of precision grip using pneumatically controlled loads, (45) 117
Hester, M.M., see Elberger, A.J., (45) 227

Hoffer, J.A., see Weytjens, J.L.F., (45) 217
Holstege, G., see Gerrits, P.O., (45) 99
Horobin, R.W., see Gerrits, P.O., (45) 99
Hu, J.W., see Jacquin, M.F., (45) 71

Jacquin, M.F., Hu, J.W., Sessle, B.J., Renehan, W.E. and Waite, P.M.E.
Intra-axonal neurobiotin™ injection rapidly stains the long-range projections of identified trigeminal primary afferents in vivo: comparisons with HRP and PHA-L, (45) 71
Jonason, G., see Elverfors, A., (45) 209
Jonason, J., see Elverfors, A., (45) 209

Kallesøe, K., see Weytjens, J.L.F., (45) 217
Kingma, G.G., Miller, J.M. and Myers, M.W.
Chronic drug infusion into the scala tympani of the guinea pig cochlea, (45) 127
Knepper, M., see Hedwig, B., (45) 135

Larsen, N.E., see Andreasen, A., (45) 199
Leonsson, G., see Elverfors, A., (45) 209
Lin, L., see Hatton, J.D., (45) 147
Lüscher, C., Frei, P. and De Limoges, D.
Modification of a consumer digital audio tape (DAT) for analog data recording, (45) 155

Mai, N., see Hermsdörfer, J., (45) 117
Marquardt, C., see Hermsdörfer, J., (45) 117
Mas, M., see Guadalupe, T., (45) 159
Mast, L., see Gerrits, P.O., (45) 99
Miller, J.M., see Kingma, G.G., (45) 127
Myers, M.W., see Kingma, G.G., (45) 127

Nissbrandt, H., see Elverfors, A., (45) 209

Renehan, W.E., see Jacquin, M.F., (45) 71

's-Gravenmade, E.J., see Gerrits, P.O., (45) 99
Sadlon, T.A., see Gordon, D.L., (45) 191
Schofield, G.G., see Chen, C., (45) 63
Sessle, B.J., see Jacquin, M.F., (45) 71
Sparkman, D.R.
Comparison of methods for the in vitro assembly of post-mortem human brain microtubules that retain the microtubule-associated protein tau, (45) 41
Stiles, H., see Elberger, A.J., (45) 227
Suaud-Chagny, M.F., Brun, P., Buda, M. and Gonon, F.
Fast in vivo monitoring of electrically evoked dopamine release by differential pulse amperometry with untreated carbon fibre electrodes, (45) 183

Thrasivoulou, C., see Cowen, T., (45) 107
Tomasini, C., see Bianchi, C., (45) 175

Vedovato, M., see Bianchi, C., (45) 175
Viberg, D.A., see Weytjens, J.L.F., (45) 217

Waite, P.M.E., see Jacquin, M.F., (45) 71
Wakefield, G.H., see Edwards, B.W., (45) 1
Weytjens, J.L.F., Viberg, D.A., Caputi, A.A., Kallesøe, K. and Hoffer, J.A.
New transducers for measuring muscle length in unrestrained animals, (45) 217
Wondergem, J., see De Vrind, H.H., (45) 165

Key Word Index (Vol. 45)

A/D sampling, (45) 135
Alignment, (45) 199
Allopurinol, (45) 159
Amines, (45) 107
Astrocytes, (45) 191
Axonal label, (45) 35

Benzidine, (45) 227
Biotin, (45) 35
Brain slices, (45) 209

C3, (45) 191
Calcium current, (45) 63
Carbon fibre electrode, (45) 183
Cholera toxin subunit B, (45) 23
Chronic drug treatment, (45) 127
Chronic recording, (45) 217
Cochlea, (45) 127
Complement, (45) 191
Computer analysis, (45) 1
Computer-assisted, (45) 199
Computer software, (45) 135
Connectivity detection, (45) 1
Corpus callosum, (45) 227
Cross-correlation, (45) 55
Cytoskeleton, (45) 41

Data acquisition, (45) 155
Data storage, (45) 155
A-D conversion, (45) 155
Demyelination, (45) 99
Densitometry, (45) 107
Dextran, (45) 35
Diamidino Yellow, (45) 15
Diaminobenzidine, (45) 35
Differential normal pulse voltammetry, (45) 159
Differential pulse amperometry, (45) 183
Dopamine, (45) 183
Dopamine release, (45) 209
Double immunohistochemistry, (45) 23

Electrical field stimulation, (45) 175
Electron microscope, (45) 227
Electron microscopy, (45) 23
Electrophysiology, (45) 155, (45) 165
Experimental allergic encephalomyelitis, (45) 99

Factor H, (45) 191
Factor I, (45) 191
Fast Blue, (45) 15
Finger movement, (45) 117
Fluorescent dye, (45) 63
Fluorescent tracers, (45) 15, (45) 87
Fluoro-Gold, (45) 15

β-Galactosidase, (45) 147
Ganglion cell, (45) 71
Glycol methacrylate, (45) 99
Golgi stain, (45) 227
Grip force, (45) 117
Guinea pig, (45) 209

Hand function, (45) 117
D-[^{3}H]aspartate outflow, (45) 175
Hippocampus, (45) 199
Histochemistry, (45) 147
Horseradish peroxidase, (45) 71
Horseradish Peroxidase, (45) 227
Human brain, (45) 41
Human motoneuron, (45) 55
5-Hydroxyindoleacetic acid, (45) 159
Hyperthermia, (45) 165

Image analysis, (45) 107
Immunohistochemistry, (45) 107
Inhibitory presynaptic receptors, (45) 175
Interval statistics, (45) 1
Intracellular labeling, (45) 71
In vitro, (45) 209
Ion channel, (45) 63

Leaky-integrator model, (45) 55
Length transducers, (45) 217
Load production, (45) 117

Macrophages, (45) 99
Microdialysis, (45) 159
Micro-injection system, (45) 127
Microtubule-associated proteins, (45) 41
Microtubules, (45) 41
Models, (45) 1
Motor function, (45) 165
Multiple sclerosis, (45) 99
Muscle length, (45) 217
Myelin, (45) 99

Neo–Timm method, (45) 199
Neural ensemble, (45) 1
Neurobiotin, (45) 71
Neuroethological data, (45) 135
Neuronal cultures, (45) 175

Pargyline, (45) 159
Patch clamp, (45) 155
Peri-stimulus spike density, (45) 55
Perturbation, (45) 117
Phaseolus vulgaris leucoagglutinin, (45) 23
Phaseolus vulgaris leucoagglutinin, (45) 71
Photo-oxidation, (45) 87
Piezoelectricity, (45) 217
Polymerase chain reaction, (45) 191
Precision grip, (45) 117
Propidium Iodide, (45) 15
PSTH, (45) 55

Quadruple labeling, (45) 15
Quantitation, (45) 107
Quantitative evaluation, (45) 135

Rat brain, (45) 147
Rate of an inhomogeneous Poisson process, (45) 55
Reconstruction, (45) 199
Red Nucleus, (45) 15
Release, (45) 183
Retrograde label, (45) 35
Retrograde transport, (45) 71

Sciatic nerve, (45) 165
Sensory function, (45) 165
Serial sections, (45) 199
Serotonin, (45) 107, (45) 159
Signal processing, (45) 1
Single-channel recording, (45) 155
Sonomicrometry, (45) 217
Spinal cord, (45) 35, (45) 99
Substantia nigra, (45) 209
Sucrose, (45) 227
Sudan Black B, (45) 99
Superior cervical ganglion, (45) 63
Sympathetic neuron, (45) 63

Tau, (45) 41
Taxol, (45) 41
Three-dimensional, (45) 199
o-Tolidine, (45) 227
Trigeminal, (45) 71
Tubulin, (45) 41

Ultrastructural neuronal mapping, (45) 87
Ultraviolet, (45) 63
Uric acid, (45) 159

Vibrissae, (45) 71
Video imaging, (45) 107
Visual cortex, (45) 227
Voltage-clamp, (45) 63

Wave form analysis, (45) 159